Appl. No. 10/074,954 Amdt. dated Jan. 04/2004 Reply to Office action of Nov. 4, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented) A polishing apparatus having a ditched ring for preventing wrinkling of a polishing pad that borders a substrate during chemical mechanical polishing, comprising:

- a rotatable head assembly having a shallow recessed face adapted to centerly hold a substrate;
- a non-rotating cylindrical actuator assembly coaxially oriented about the outer edge of said rotary polishing head assembly;
- a rotary polishing platen having a polishing pad surface facing said substrate;
- a polishing slurry containing a mechanical abrasive deposited on said polishing pad;
- a ditched ring removably attached to a bottom surface of said non-rotary cylindrical actuator assembly, said ditched ring having a bottom surface with a multiplicity of conduit grooves formed therein, said conduit

Appl. No. 10/074,954 Amdt. dated Jan. 04/2004 Reply to Office action of Nov. 4, 2003

grooves permitting a boundary layer of abrasive slurry to flow unimpeded to a rotating substrate while preventing wrinkling of said polishing pad.

- Claim 2 (original) The apparatus of claim 1, wherein said cylindrical actuator assembly is vertically floatable with respect to said rotatable polishing head assembly.
- Claim 3 (original) The apparatus of claim 1, wherein said ditched ring further comprises:

 a bottom section of a reduced wall thickness of approximately 5 mm;

 a multiplicity of conduit grooves formed in said bottom section of ditched ring permitting a boundary layer of abrasive slurry to flow unimpeded to a rotating substrate;

 said conduit grooves formed in pairs, each groove formed on either side of a center coordinate axis of said ditched ring;

 said conduit grooves pairs are radially concentric and developed from a point outside of said ditched ring on said center axis;

 said center coordinate axis of said conduit grooves is coincident with rotatable axis of the polishing platen.
- Claim 4 (original) The apparatus of claim 2 wherein said conduit grooves are substantially 0.4 mm wide.
- Claim 5 (original) The apparatus of claim 2 wherein said conduit grooves are radially concentric with a spacing between of approximately 20 mm.

Appl. No. 10/074,954 Amdt. dated Jan. 04/2004 Reply to Office action of Nov. 4, 2003

- Claim 6 (currently amended) The apparatus of claim 1 wherein a [[said]] reduced wall thickness at the bottom of said ditched ring is configured to displace wrinkles from the outer edge of said substrate to the outer periphery of the ditched ring.
- Claim 7 (currently amended) The apparatus of claim 2 wherein [[said]] <u>providing</u> radially concentric conduit grooves form radial tracks of a metered volume of abrasive slurry on surface of said polishing pad[[;]].
- Claim 8 (original) The apparatus of claim 1 wherein the use of said ditched ring during chemical mechanical polishing of substrates uniformly removes microscratches.

Claims 9-16 (canceled)